Waves		Electromagnetic waves
	MUST (6)	Recall common properties of electromagnetic waves, and the regions of the spectrum
Learning objectives	SHOULD (7)	Characterise the different types of EM radiation, and their suitability for different uses
	COULD (8/9)	Explain how different transmission rates through the atmosphere affect applications of EM radiation.

STARTER: What have these items got in common?

William Herschel's thermometer	Left just outside the red light refracted from a prism, showed temperature increase - infrared
Mrs Roentgen's hand	First deliberate subject of an X-ray. (Was she pleased? No.)
A peanut butter candy bar in Percy Spencer's pocket	ercy Spencer was an engineer working on magnetrons. When a bar of candy in his pocket melted near a magnetron that emitted microwaves, Percy investigated. First deliberately cooked item - popcorn.

04:00

Who got paid more?

Percy Spencer, for inventing the microwave oven	Got no royalties, but a one-off payment. Of \$2.
Neil Armstrong, for going to the moon	Didn't actually get paid any more on top of his pilot's salary. He was allowed to claim \$8 for each of the three days of the flight, as allowance for being away from his base.

Nobody would insure the Apollo astronauts. What did they do instead?











